

## INTERNATIONAL SEARCH REPORT

International Application No.

/IB2004/052304

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B20/12 G11B27/32 G11B27/24 G11B19/12 G11B7/007

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/058765 A1 (SCHREURS GERARD ELISE NOEL ET AL) 27 March 2003 (2003-03-27)	1, 2, 4
Y	paragraph '0003! - paragraph '0028!; figures 1,2	3
Y	----- EP 1 134 738 A (SONY CORPORATION) 19 September 2001 (2001-09-19)	3
A	paragraph '0049! - paragraph '0096! paragraph '0245! - paragraph '0264! paragraph '0381! - paragraph '0434!	1, 2, 4
Y	----- US 5 587 981 A (KAMATANI ET AL) 24 December 1996 (1996-12-24) the whole document	1, 4
	----- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the International search

1 February 2005

Date of mailing of the International search report

10/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Gil Zamorano, A

## INTERNATIONAL SEARCH REPORT

International Application No  
/IB2004/052304

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/012304 A1 (NAKAHARA MASANORI ET AL) 31 January 2002 (2002-01-31) paragraph '0061! - paragraph '0130!; figures 1-4	1,4
A	US 2002/150017 A1 (ONO KAZUHIKO ET AL) 17 October 2002 (2002-10-17) the whole document	1-4
A	EP 1 241 667 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 18 September 2002 (2002-09-18) paragraph '0016! - paragraph '0025!; figure 1	1-4
A	US 6 141 702 A (LUDTKE ET AL) 31 October 2000 (2000-10-31) column 7, line 54 - column 11, line 35; figures 10,11	1,4

INTERNATIONAL SEARCH REPORT  
Information on patent family members

International Application No.

IB2004/052304

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003058765	A1	27-03-2003	EP 1433168 A2 WO 03030153 A2	30-06-2004 10-04-2003
EP 1134738	A	19-09-2001	AU 2122801 A CN 1318840 A EP 1134738 A2 ID 29507 A JP 2001312860 A SG 99888 A1 US 2001053114 A1	30-08-2001 24-10-2001 19-09-2001 06-09-2001 09-11-2001 27-11-2003 20-12-2001
US 5587981	A	24-12-1996	NONE	
US 2002012304	A1	31-01-2002	JP 2002042448 A DE 60106164 D1 EP 1182661 A2	08-02-2002 11-11-2004 27-02-2002
US 2002150017	A1	17-10-2002	JP 2002312933 A	25-10-2002
EP 1241667	A	18-09-2002	JP 2002269963 A EP 1241667 A2 US 2002131334 A1	20-09-2002 18-09-2002 19-09-2002
US 6141702	A	31-10-2000	AT 227464 T AU 8578998 A CN 1265770 T DE 69809239 D1 DE 69809239 T2 EP 0998744 A1 JP 2001512274 T WO 9906997 A1	15-11-2002 22-02-1999 06-09-2000 12-12-2002 11-09-2003 10-05-2000 21-08-2001 11-02-1999